QC ABSTRACT

NAME OF WORK: Package No.03 (Package Consists of 21 Works)

L NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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9	RCC(M20)	Compressive Strength(7days and 28days)	7 set /150-200 cum	179	14	14
10	GSB	SIEVE ANALYSIS	One Test		1	1
11	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
12	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
13	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
14	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
15	TACK COAT	Rate of spread,	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-02-03-03 **Date: 05-12-20**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 02-12-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1983
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 03-12-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.98	–
2	Finess by Air permeablity method (m^2/kg,Min)	297.3	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-02-03-03 **Date: 31-12-20**
Project Name	:	Package No.03 (Package Consists of 21 Works)
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	02-12-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-12-20
Environmental Conditions during Test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-03-03** **Date: 05-12-20**
Project Name	:	Package No.03 (Package Consists of 21 Works)
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	02-12-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-12-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	5049	5263	35.1	64.9	30-70
4	10 mm	7132	12395	82.6	17.4	10-35
5	4.75 mm	2121	14516	96.8	3.2	0-5
6	Pan	484	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-02-03-03** **Date: 05-12-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.59	_
4	Bulk Density(Loose) (Kg/l)	1.39	_
5	Bulk Density(Compacted) (Kg/l)	1.46	_
6	Water Absorption(%)	0.22	_

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-03-03** **Date: 04-12-20**
Project Name	:	Package No.03 (Package Consists of 21 Works)
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	02-12-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-12-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	195	195	3.9	96.1	90-100
3	10 mm	2714	2909	58.2	41.8	25-55
4	4.75 mm	1988	4897	97.9	2.1	0-10
5	Pan	103	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-02-03-03** **Date: 04-12-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.57	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-02-03-03 **Date: 04-12-20**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 02-12-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-12-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-02-03-03**

Date: 04-12-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID : CP-2021-02-03-03

Date: 03-12-20

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 02-12-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 02-12-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

ıb ID	:	CP-2021-02-03-03 **Date: 02-01-21**
oject Name	:	Package No.03 (Package Consists of 21 Works)
;ency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
ıstomer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
ıte of Receipt	:	29-12-20
mple Type /Size	:	Precast Cover Slab (100mm)
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
te of test	:	29/12/2020

l. o.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

ıe results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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Certificate No.: TC-5548

TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

ı ID	:	CP-2021-02-03-03
ject Name	:	Package No.03 (Package Consists of 21 Works)
ıncy	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
tomer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
e of Receipt	:	29-12-20
ıple Type /Size	:	Precast Cover Slab (250mm)
:rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
e of test	:	29/12/2020

Date: 02-01-21

	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

: results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-03 Date: 22/12/2020

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 17-12-20

Customer ID : Drain Bottom Slab Concrete, (Arali Katte Opposite (LV Bekary Near Kodigehalli Circle))

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	15/12/2020	22/12/2020	151.26 X 149.21 X 151.89	22570	8.766	409.9	18.2	18.4
2	Drain Bottom Slab Concrete	M20	15/12/2020	22/12/2020	151.96 X 149.24 X 151.44	22679	8.338	416.9	18.4	
3	Drain Bottom Slab Concrete	M20	15/12/2020	22/12/2020	149.09 X 149.74 X 149.17	22324	8.979	417.3	18.7	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-03 **Date: 12/01/2021**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 17-12-20

Customer ID : Drain Bottom Slab Concrete, (Arali Katte Opposite (LV Bekary Near Kodigehalli Circle))

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	15/12/2020	12/01/2021	150.06 X 151.07 X 151.04	22668	**8.659**	541.0	23.9	
2	Drain Bottom Slab Concrete	M20	15/12/2020	12/01/2021	150.78 X 149.26 X 149.73	22506	**8.245**	510.8	22.7	23.2
3	Drain Bottom Slab Concrete	M20	15/12/2020	12/01/2021	151.27 X 149.97 X 151.81	22686	**8.097**	523.4	23.1	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-03 **Date: 22/12/2020**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 17-12-20

Customer ID : Drain Bottom Slab Concrete, (Swd Drain To Kodigehalli Circle)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	15/12/2020	22/12/2020	149.62 X 151.49 X 150.34	22666	8.766	421.7	18.6	18.7
2	Drain Bottom Slab Concrete	M20	15/12/2020	22/12/2020	149.32 X 150.69 X 150.70	22501	8.338	422.8	18.8	
3	Drain Bottom Slab Concrete	M20	15/12/2020	22/12/2020	150.34 X 150.17 X 151.01	22577	8.979	423.8	18.8	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-03 Date: 12/01/2021

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 17-12-20

Customer ID : Drain Bottom Slab Concrete, (Swd Drain To Kodigehalli Circle)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	15/12/2020	12/01/2021	150.92 X 149.53 X 150.32	22567	8.659	526.9	23.4	23.2
2	Drain Bottom Slab Concrete	M20	15/12/2020	12/01/2021	150.99 X 149.34 X 149.06	22548	8.245	517.1	22.9	
3	Drain Bottom Slab Concrete	M20	15/12/2020	12/01/2021	149.46 X 149.48 X 149.11	22342	8.097	518.9	23.2	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : CP-2021-02-03-03

Date: 26/12/2020

roject Name : Package No.03 (Package Consists of 21 Works)

gency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

ustomer's Reference : BBMP/EE/BTP/WO/148/2018-19

ate of Receipt : 21-12-20

ustomer ID : Drain Side Wall Concrete, (Arali Katte Opposite (LV Bekary Near Kodigehalli Circle))

ample Type /Size : 150X150X150 mm

ample grade/Age : M20 / 7 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ate of test : 26/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	151.20 X 150.96 X 150.77	22825	8.766	427.9	18.7	18.7
2	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	150.00 X 149.28 X 149.21	22392	8.338	422.4	18.9	
3	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	150.81 X 150.11 X 151.72	22639	8.979	419.5	18.5	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

FOR CIVIL Pro.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-03

Date: 16/01/2021

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 21-12-20

Customer ID : Drain Side Wall Concrete, (Arali Katte Opposite (LV Bekary Near Kodigehalli Circle))

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	149.24 X 150.13 X 151.17	22405	8.659	536.2	23.9	23.5
2	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	151.73 X 151.53 X 150.77	22992	8.245	522.2	22.7	
3	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	151.73 X 151.62 X 151.81	23006	8.097	549.8	23.9	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

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1	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	150.95 X 150.59 X 149.47	22731	8.766	412.2	18.1	18.3
2	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	150.64 X 150.12 X 149.49	22614	8.338	409.5	18.1	
3	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	149.43 X 150.42 X 150.63	22477	8.979	417.4	18.6	

he results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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